



# Engineering & Implementation

*Miebach Consulting began over 40 years ago when Dr. Miebach saw the need for an unbiased firm to design distribution, warehousing and manufacturing sites, independent of suppliers of equipment or buildings. Since then, we have supported some of the first automated warehouses and robotic applications in the industry, constantly looking for innovative ways to improve operations. We support clients with the specification development, tendering, implementation, training and ramp up, and acting as their technical advocate all the way through to the successful go-live.*

## Warehouse Design

The design process starts with understanding how your business and manufacturing plans will evolve in the long-term to define the future design requirements of the plant. Miebach then develops proper processes and efficient material flows in order to ensure the site logistics will meet your future needs. Only after this is defined, alternatives are proposed as to how technology could maximize your return on the transformation of the site.

## Production Logistics

As a logistics and supply chain expert, Miebach Consulting can support you in developing a concept and introducing value-creating logistics processes, as well as in optimizing existing processes. As these are often highly detailed complex projects, it is important to trust in a partner who can not only develop your proper logistics strategy, but also design and implement the specific delivery concepts at the required locations.

## Warehouse Management Systems

By providing professional moderation for meetings with bidders and support in contractual negotiations, we ensure an effective IT selection process. We utilize workshops to ensure high quality specifications when creating specification sheets. We create the test plan, and accept responsibility for neutral coordination with all system partners. This allows us to support you in quality assurance and go-live.

## Simulation

Miebach Consulting's simulations clarify and illustrate existing or planned processes for your organization. By visualizing processes you are able to quickly identify bottlenecks and immediately introduce corrective measures. Flexible simulation models enable testing of various scenarios, then analyze the results in detail. The results of these tests provide reliable estimates of the expected system performance.

## Project Management

Miebach project managers use standardized tools and proven methods to achieve results. To begin, we establish a project handbook of the significant requirements and rules for project organization and processes. We display the project status at all times and in a transparent manner we use tools for deadline tracking, cost controlling, and quality review. Prompt and comprehensive professional risk management ensures your project's success.

## Transition Planning

From concept to implementation, the complex matrix of details are critical not only for the operational changes, but for the impact on personnel as well as information flow. Analyzing inventory, operational schedules, IT systems, and timing allows for the development of a comprehensive implementation plan. This plan includes staffing assignments, adequate training and the coordination of support.

## Site Masterplanning

The design process starts with understanding how your business and manufacturing plans will evolve in the long-term to define your future design requirements of the plant. Miebach then develops proper processes and efficient material flows in order to ensure the site logistics will meet your future needs. Only after this is defined, alternatives are proposed as to how technology could maximize the return on the transformation of your site.

## Integrated Logistics and Construction

As an unbiased consultant, Miebach works independently of specific suppliers or manufacturers. Rather than sourcing an operations consultancy, an architect, and a build firm on your own, we work with you to create specification requirements for each work package and support the tendering and award process. Our goal is to create a process that best conforms to your specific needs and on-site conditions.

